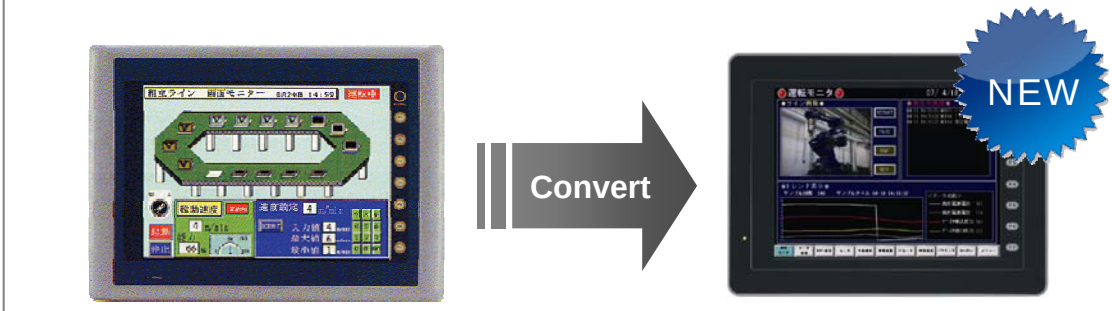
MONITOUCH

Replacement Guidance

[V6 Series]



V6 Series

V8 Series

- List of V6 Series Models

Following is a list of models in V6 series.
Please check the model of V6 series unit in use and then refer to the recommended replacement model described in this manual.

V612□□□□□

- None: AC100-240V / D: DC24V
- None: Analog resistive switch / M: Matrix resistive switch
- 0: N/A / 1: Video input
- 1: Standard / 2: Card interface
- T:TFT color LCD SVGA / C:STN color LCD SVGA

V610□□□□□

- None: AC100-240V / D: DC24V
- None: Analog resistive switch / M: Matrix resistive switch *Matrix type is not available in V810S series.
- 0: N/A / 1: Video input / 2: RGB input (Only for V610T with analog touch switch)
- 1: Standard / 2: Card interface
- T:TFT color LCD VGA / C:STN color LCD VGA / S:TFT color LCD SVGA

V608C10

- Standard
- STN color LCD VGA

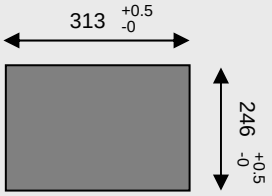
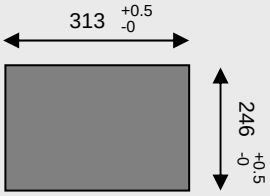
V606i□10□

- None: Analog resistive switch / M: Matrix resistive switch
- Standard
- T:TFT color LCD QVGA / C:STN color LCD QVGA / M:STN monochrome LCD QVGA

V606□10□

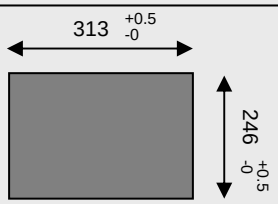
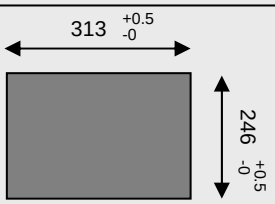
- None: Analog resistive switch / M: Matrix resistive switch
- Standard
- C:STN color LCD QVGA / M:STN monochrome LCD QVGA

- V612 Series: Recommended Replacement Model (1)

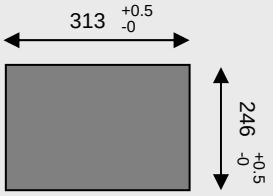
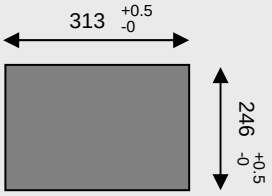
	V612T/V612C Series				Recommended Replacement Model	
	V612Tx0	V612Tx0M	V612Cx0	V612Cx0M	V812S	V812SM
Panel cutout size (mm)	 313 +0.5 -0, 246 +0.5 -0				 313 +0.5 -0, 246 +0.5 -0	
Display device	TFT color		STN color		TFT color	
Display colors	128 colors				65,536 colors	
Resolution	800 x 600 dots				800 x 600 dots	
Touch switch	Analog	Matrix	Analog	Matrix	Analog	Matrix
Comm. I/F	D-Sub25-pin: RS-232C/422/485 MJ 8-pin (2 ports): RS-232C/485				D-Sub9-pin: RS-232C/422/485 MJ 8-pin (2 ports): RS-232C/485	
Power supply	AC85 - 265V				AC100 - 240V	

*1 Please have the dedicated communication cable for connecting PLC with V8 series. Conversion cable called “D9-D25” is available if you wish to continue using the existing cable.
*2 If you are currently using our optional terminal converter “TC485”, please have another terminal converter unit of us called “TC-D9”.
*3 If you replace the unit to the analog resistive switch typed V8, it is not possible to push the two positions on the touch switch at the same time. However, it is possible to push the touch switch and the function switch at the same time.

- V612 Series: Recommended Replacement Model (2)

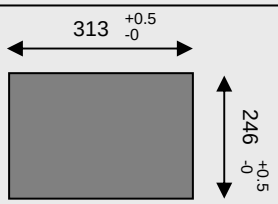
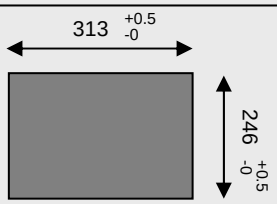
	V612T/V612C Series				Recommended Replacement Model	
	V612Tx0D	V612Tx0MD	V612Cx0D	V612Cx0MD	V812SD	V812SMD
Panel cutout size (mm)	 313 +0.5 -0, 246 +0.5 -0				 313 +0.5 -0, 246 +0.5 -0	
Display device	TFT color		STN color		TFT color	
Display colors	128 colors				65,536 colors	
Resolution	800 x 600 dots				800 x 600 dots	
Touch switch	Analog	Matrix	Analog	Matrix	Analog	Matrix
Comm. I/F	D-Sub25-pin: RS-232C/422/485 MJ 8-pin (2 ports): RS-232C/485				D-Sub9-pin: RS-232C/422/485 MJ 8-pin (2 ports): RS-232C/485	
Power supply	DC24V				DC24V	

*1 Please have the dedicated communication cable for connecting PLC with V8 series. Conversion cable called “D9-D25” is available if you wish to continue using the existing cable.
*2 If you are currently using our optional terminal converter “TC485”, please have another optional converter unit of us called “TC-D9”.
*3 If you replace the unit to the analog resistive switch typed V8, it is not possible to push the two positions on the touch switch at the same time. However, it is possible to push the touch switch and the function switch at the same time.

	V612T/V612C Series				Recommended Replacement Model	
	V612Tx1	V612Tx1M	V612Cx1	V612Cx1M	V812iS	V812iSM
Panel cutout size (mm)	 313 +0.5 -0, 246 +0.5 -0				 313 +0.5 -0, 246 +0.5 -0	
Display device	TFT color		STN color		TFT color	
Display colors	128 colors				65,536 colors	
Resolution	800 x 600 dots				800 x 600 dots	
Touch switch	Analog	Matrix	Analog	Matrix	Analog	Matrix
Comm. I/F	D-Sub25-pin: RS-232C/422/485 MJ 8-pin (2 ports): RS-232C/485				D-Sub9-pin: RS-232C/422/485 MJ 8-pin (2 ports): RS-232C/485	
Power supply	AC85 - 265V				AC100 - 240V	
Video	4CH				Option unit “GU-00” or “GU-10” is required.	

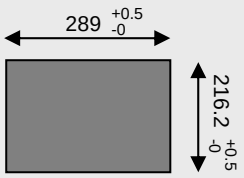
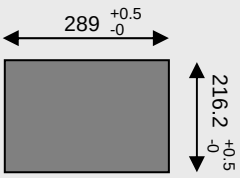
*1 Please have the dedicated communication cable for connecting PLC with V8 series. Conversion cable called “D9-D25” is available if you wish to continue using the existing cable.
*2 If you are currently using our optional terminal converter “TC485”, please have another optional terminal converter unit of us called “TC-D9”.
*3 If you replace the unit to the analog resistive switch typed V8, it is not possible to push the two positions on the touch switch at the same time. However, it is possible to push the touch switch and the function switch at the same time.

- V612 Series: Recommended Replacement Model (3)

	V612T/V612C Series				Recommended Replacement Model	
	V612Tx1D	V612Tx1MD	V612Cx1D	V612Cx1MD	V812iSD	V812iSMD
Panel cutout size (mm)	 313 +0.5 -0, 246 +0.5 -0				 313 +0.5 -0, 246 +0.5 -0	
Display device	TFT color		STN color		TFT color	
Display colors	128 colors				65,536 colors	
Resolution	800 x 600 dots				800 x 600 dots	
Touch switch	Analog	Matrix	Analog	Matrix	Analog	Matrix
Comm. I/F	D-Sub25-pin: RS-232C/422/485 MJ 8-pin (2 ports): RS-232C/485				D-Sub9-pin: RS-232C/422/485 MJ 8-pin (2 ports): RS-232C/485	
Power supply	DC24V				DC24V	
Video	4CH				Option unit “GU-00” or “GU-10” is required.	

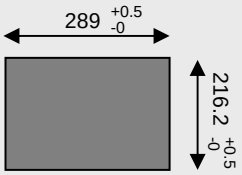
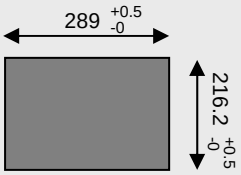
*1 Please have the dedicated communication cable for connecting PLC with V8 series. Conversion cable called “D9-D25” is available if you wish to continue using the existing cable.
*2 If you are currently using our optional terminal converter “TC485”, please have another optional terminal converter unit of us called “TC-D9”.
*3 If you replace the unit to the analog resistive switch typed V8, it is not possible to push the two positions on the touch switch at the same time. However, it is possible to push the touch switch and the function switch at the same time.

- V610 Series: Recommended Replacement Model (1)

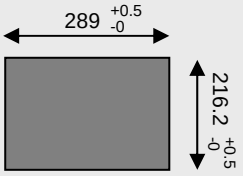
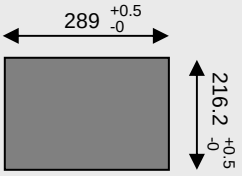
	V610S Series		Recommended Replacement Model	
	V610Sx0	V610Sx0D	V810S	V810SD
Panel cutout size (mm)	 289 +0.5 -0, 216.2 +0.5 -0		 289 +0.5 -0, 216.2 +0.5 -0	
Display device	TFT color		TFT color	
Display colors	128 colors		65,536 colors	
Resolution	800 x 600 dots		800 x 600 dots	
Touch switch	Analog		Analog	
Comm. I/F	D-Sub25-pin: RS-232C/422/485 MJ 8-pin (2 ports): RS-232C/485		D-Sub9-pin: RS-232C/422/485 MJ 8-pin (2 ports): RS-232C/485	
Power supply	AC85 - 265V	DC24V	AC100 - 240V	DC24V

*1 Please have the dedicated communication cable for connecting PLC with V8 series. Conversion cable called “D9-D25” is available if you wish to continue using the existing cable.
*2 If you are currently using our optional terminal converter “TC485”, please have another optional terminal converter unit of us called “TC-D9”.

- V610 Series: Recommended Replacement Model (2)

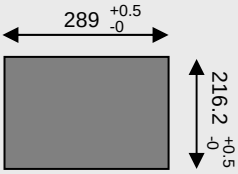
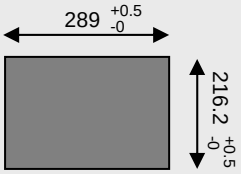
	V610S Series		Recommended Replacement Model	
	V610Sx1	V610Sx1D	V810iS	V810iSD
Panel cutout size (mm)				
Display device	TFT color		TFT color	
Display colors	128 colors		65,536 colors	
Resolution	800 x 600 dots		800 x 600 dots	
Touch switch	Analog		Analog	
Comm. I/F	D-Sub25-pin: RS-232C/422/485 MJ 8-pin (2 ports): RS-232C/485		D-Sub9-pin: RS-232C/422/485 MJ 8-pin (2 ports): RS-232C/485	
Power supply	AC85 - 265V	DC24V	AC100 - 240V	DC24V
Video input	4CH		Option unit “GU-00” or “GU-01” is required.	

*1 Please have the dedicated communication cable for connecting PLC with V8 series. Conversion cable called “D9-D25” is available if you wish to continue using the existing cable.
*2 If you are currently using our optional terminal converter “TC485”, please have another optional terminal converter unit of us called “TC-D9”.

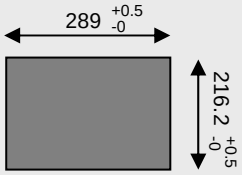
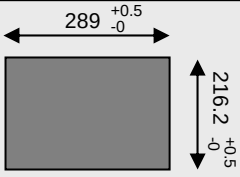
	V610T/V610C Series				Recommended Replacement Model			
	V610Tx0	V610Tx0M	V610Cx0	V610Cx0M	V810T	V810TM	V810C *4	V810CM *4
Panel cutout size (mm)								
Display device	TFT color		STN color		TFT color			
Display colors	128 colors				65,536 colors			
Resolution	640 x 480 dots				640 x 480 dots			
Touch switch	Analog	Matrix	Analog	Matrix	Analog	Matrix	Analog	Matrix
Comm. I/F	D-Sub25-pin: RS-232C/422/485 MJ 8-pin (2 ports):RS-232C/485				D-Sub9-pin: RS-232C/422/485 MJ 8-pin (2 ports): RS-232C/485			
Power supply	AC85 - 265V				AC100 - 240V			

*1 Please have the dedicated communication cable for connecting PLC with V8 series. Conversion cable called “D9-D25” is available if you wish to continue using the existing cable.
*2 If you are currently using our optional terminal converter “TC485”, please have another optional terminal converter unit of us called “TC-D9”.
*3 If you replace the unit to the analog resistive switch typed V8, it is not possible to push the two positions on the touch switch at the same time. However, it is possible to push the touch switch and the function switch at the same time.
*4 If you use the optional FROM cassette “V6EM/4” or SRAM cassette “V6EM/RS” with V6 series unit, please select either V810iC or V810iCM.

- V610 Series: Recommended Replacement Model (3)

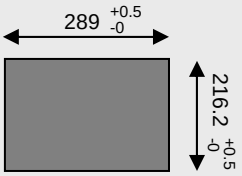
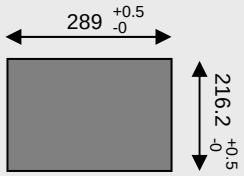
	V610T/V610C Series				Recommended Replacement Model			
	V610Tx0D	V610Tx0MD	V610Cx0D	V610Cx0MD	V810TD	V810TMD	V810CD *4	V810CMD *4
Panel cutout size (mm)	 289 +0.5 -0, 216.2 +0.5 -0				 289 +0.5 -0, 216.2 +0.5 -0			
Display device	TFT color		STN color		TFT color			
Display colors	128 colors				65,536 colors			
Resolution	640 x 480 dots				640 x 480 dots			
Touch switch	Analog	Matrix	Analog	Matrix	Analog	Matrix	Analog	Matrix
Comm. I/F	D-Sub25-pin: RS-232C/422/485 MJ 8-pin (2 ports): RS-232C/485				D-Sub9-pin: RS-232C/422/485 MJ 8-pin (2 ports): RS-232C/485			
Power supply	DC24V				DC24V			

*1 Please have the dedicated communication cable for connecting PLC with V8 series. Conversion cable called “D9-D25” is available if you wish to continue using the existing cable.
*2 If you are currently using our optional terminal converter “TC485”, please have another optional terminal converter unit of us called “TC-D9”.
*3 If you replace the unit to the analog resistive switch typed V8, it is not possible to push the two positions on the touch switch at the same time. However, it is possible to push the touch switch and the function switch at the same time.
*4 If you use the optional FROM cassette “V6EM/4” or SRAM cassette “V6EM/RS” with V6 series unit, please select either V810iCD or V810iCMD.

	V610T Series			Recommended Replacement Model	
	V610Tx1	V610Tx1M	V610Tx2	V810iT	V810iTM
Panel cutout size (mm)	 289 +0.5 -0, 216.2 +0.5 -0			 289 +0.5 -0, 216.2 +0.5 -0	
Display device	TFT color			TFT color	
Display colors	128 colors			65,536 colors	
Resolution	640 x 480 dots			640 x 480 dots	
Touch switch	Analog	Matrix	Analog	Analog	Matrix
Comm. I/F	D-Sub25-pin: RS-232C/422/485 MJ 8-pin (2 ports): RS-232C/485			D-Sub9-pin: RS-232C/422/485 MJ 8-pin (2 ports): RS-232C/485	
Power supply	AC85 - 265V			AC100 - 240V	
Video input	4CH		N/A	Option unit “GU-00” or “GU-01” is required.	
RGB input	N/A		1CH	Option unit “GU-01” or “GU-11” is required.	

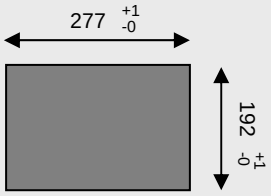
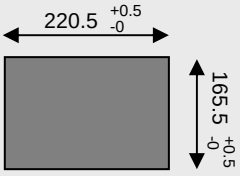
*1 Please have the dedicated communication cable for connecting PLC with V8 series. Conversion cable called “D9-D25” is available if you wish to continue using the existing cable.
*2 If you are currently using our optional terminal converter “TC485”, please have another terminal converter unit of us called “TC-D9”.
*3 If you replace the unit to the analog resistive switch typed V8, it is not possible to push the two positions on the touch switch at the same time. However, it is possible to push the touch switch and the function switch at the same time.

- V610 Series: Recommended Replacement Model (4)

	V610T Series			Recommended Replacement Model	
	V610Tx1D	V610Tx1MD	V610Tx2D	V810iTD	V810iTMD
Panel cutout size (mm)	 289 +0.5 -0, 216.2 +0.5 -0			 289 +0.5 -0, 216.2 +0.5 -0	
Display device	TFT color			TFT color	
Display colors	128 colors			65,536 colors	
Resolution	640 x 480 dots			640 x 480 dots	
Touch switch	Analog	Matrix	Analog	Analog	Matrix
Comm. I/F	D-Sub25-pin: RS-232C/422/485 MJ 8-pin (2 ports): RS-232C/485			D-Sub9-pin: RS-232C/422/485 MJ 8-pin (2 ports): RS-232C/485	
Power supply	DC24V			DC24V	
Video input	4CH		N/A	Option unit “GU-00” or “GU-10” is required.	
RGB input	N/A		1CH	Option unit “GU-01” or “GU-11” is required.	

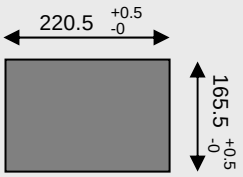
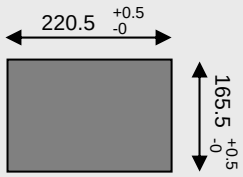
*1 Please have the dedicated communication cable for connecting PLC with V8 series. Conversion cable called “D9-D25” is available if you wish to continue using the existing cable.
*2 If you are currently using our optional terminal converter “TC485”, please have another optional terminal converter unit of us called “TC-D9”.
*3 If you replace the unit to the analog resistive switch typed V8, it is not possible to push the two positions on the touch switch at the same time. However, it is possible to push the touch switch and the function switch at the same time.

- V609E Series: Recommended Replacement Model

	V609E Series		Recommended Replacement Model
	V609Ex0M	V609Ex0MD	V808CD
Panel cutout size (mm)	 277 +1 -0, 192 +1 -0		 220.5 +0.5 -0, 165.5 +0.5 -0 Panel cutout size is adjustable by using Panel Adapter “PAD-V608-01”.
Display device	EL/High brightness EL		TFT color
Display color	2 colors		65,536 colors [V609E Compatibility Setting becomes available by setting the display color to 128 colors.]
Resolution	640 x 400 dots		640 x 480 dots [It is also possible to use the screen display as 640 x 400 dots.]
Touch switch	Matrix		Analog
Comm. I/F	D-Sub25-pin: RS-232C/422/485 MJ 8-pin (2 ports): RS-232C/485		D-Sub9-pin: RS-232C/422/485 MJ 8-pin (2 ports): RS-232C/485
Power supply*4	AC100 - 240V	DC24V	DC24V

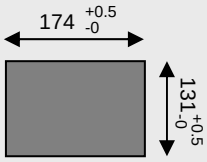
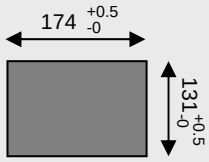
*1 Please have the dedicated communication cable for connecting PLC with V8 series. Conversion cable called “D9-D25” is available if you wish to continue using the existing cable.
*2 If you use the terminal block, please have our optional terminal converter unit called “TC-D9”.
*3 It is not possible to push the two positions on the touch switch at the same time. However, it is possible to push the touch switch and the function switch at the same time.
*4 If it is unable to prepare the DC power, please have our optional unit called “V808C-PW”.

- V608 Series: Recommended Replacement Model

	V608C Series	Recommended Replacement Model
	V608C10	V808CD *3
Panel cutout size (mm)		
Display device	STN color	TFT color
Display color	128 colors	65,536 colors
Resolution	640 x 480 dots	640 x 480 dots
Touch switch	Analog	Analog
Comm. I/F	D-Sub25-pin: RS-232C/422/485 MJ 8-pin (2 ports): RS-232C/485	D-Sub9-pin: RS-232C/422/485 MJ 8-pin (2 ports): RS-232C/485
Power supply	DC24V	DC24V

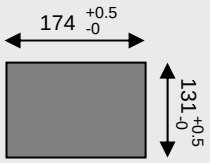
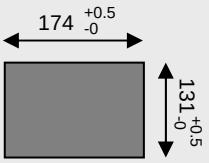
*1 Please have the dedicated communication cable for connecting PLC with V8 series. Conversion cable called “D9-D25” is available if you wish to continue using the existing cable.
*2 If you are currently using our optional terminal converter “TC485”, please have another optional terminal converter unit of us called “TC-D9”.
*3 If you use the optional FROM cassette “V6EM/4” or SRAM cassette “V6EM/RS” with V6 series unit, please select V808iCD.

- V606i Series: Recommended Replacement Model (1)

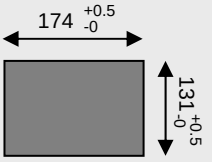
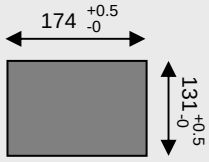
	V606iT Series		Recommended Replacement Model
	V606iT10	V606iT10M	V806TD *4
Panel cutout size (mm)			
Display device	TFT color		TFT color
Display color	16 colors		65,536 colors
Resolution	320 x 240 dots		320 x 240 dots
Touch switch	Analog	Matrix	Analog
Comm. I/F	D-Sub25-pin: RS-232C/422/485 MJ 8-pin (2 ports): RS-232C/485		D-Sub9-pin: RS-232C/422/485 (When using optional unit DU-10) MJ 8-pin (2 ports): RS-232C/422/485 *3
Power supply	DC24V		DC24V

*1 Please have the dedicated communication cable for connecting PLC with V8 series. If you use the optional unit called DU-10 and wish to continue using the existing cable, please have our optional conversion cable called “D9-D25”. If you do not use DU-10, please have our conversion cable “MJ2-PLC” (except when connecting to Mitsubishi A series CPU). When connecting to Mitsubishi A series CPU, please have our cable called “V706-ACPU”.
*2 It is not possible to push the two positions on the touch switch at the same time. However, it is possible to push the touch switch and the function switch at the same time.
*3 It is possible to realize RS-422 (4-wire) connection through MJ2.
*4 If you use the optional FROM cassette “V6EM/4i” or SRAM cassette “V6EM/RSi” with V6 series unit, please select V806iTD.

- V606i Series: Recommended Replacement Model (2)

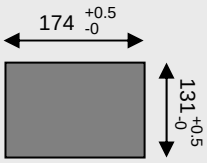
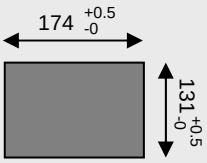
	V606iC Series		Recommended Replacement Model
	V606iC10	V606iC10M	V806CD *4
Panel cutout size (mm)			
Display device	STN color		STN color
Display color	16 colors		65,536 colors
Resolution	320 x 240 dots		320 x 240 dots
Touch switch	Analog	Matrix	Analog
Comm. I/F	D-Sub25-pin: RS-232C/422/485 MJ 8-pin (2 ports): RS-232C/485		D-Sub9-pin: RS-232C/422/485 (When using optional unit) MJ 8-pin (2 ports): RS-232C/422/485 *3
Power supply	DC24V		DC24V

*1 Please have the dedicated communication cable for connecting PLC with V8 series. If you use the optional unit called DU-10 and wish to continue using the existing cable, please have our optional conversion cable called “D9-D25”. If you do not use DU-10, please have our conversion cable “MJ2-PLC” (except when connecting to Mitsubishi A series CPU). When connecting to Mitsubishi A series CPU, please have our cable called “V706-ACPU”.
*2 It is not possible to push the two positions on the touch switch at the same time. However, it is possible to push the touch switch and the function switch at the same time.
*3 It is possible to realize RS-422 (4-wire) connection through MJ2.
*4 If you use the optional FROM cassette “V6EM/4i” or SRAM cassette “V6EM/RSi” with V6 series unit, please select V806iCD.

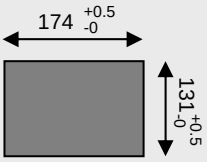
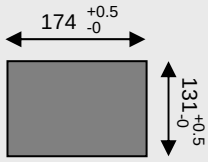
	V606iM Series		Recommended Replacement Model
	V606iM10	V606iM10M	V806MD *4
Panel cutout size (mm)			
Display device	STN monochrome		STN monochrome
Display color	8 grayscale		16 grayscale
Resolution	320 x 240 dots		320 x 240 dots
Touch switch	Analog	Matrix	Analog
Comm. I/F	D-Sub25-pin: RS-232C/422/485 MJ 8-pin (2 ports): RS-232C/485		D-Sub9-pin: RS-232C/422/485 (When using optional unit DU-10) MJ 8-pin (2 ports): RS-232C/422/485 *3
Power supply	DC24V		DC24V

*1 Please have the dedicated communication cable for connecting PLC with V8 series. If you use the optional unit called DU-10 and wish to continue using the existing cable, please have our optional conversion cable called “D9-D25”. If you do not use DU-10, please have our conversion cable “MJ2-PLC” (except when connecting to Mitsubishi A series CPU). When connecting to Mitsubishi A series CPU, please have our cable called “V706-ACPU”.
*2 It is not possible to push the two positions on the touch switch at the same time. However, it is possible to push the touch switch and the function switch at the same time.
*3 It is possible to realize RS-422 (4-wire) connection through MJ2.
*4 If you use the optional FROM cassette “V6EM/4i” or SRAM cassette “V6EM/RSi” with V6 series unit, please select V806iMD.

- V606 Series: Recommended Replacement Model (1)

	V606C Series		Recommended Replacement Model
	V606C10	V606C10M	V806CD
Panel cutout size (mm)			
Display device	STN color		STN color
Display color	16 colors		65,536 colors
Replacement	320 x 240 dots		320 x 240 dots
Touch switch	Analog	Matrix	Analog
Comm. I/F	D-Sub25-pin: RS-232C/422/485 MJ 8-pin (2 ports): RS-232C/422/485		D-Sub9-pin: RS-232C/422/485 (When using optional unit DU-10) MJ 8-pin (2 ports): RS-232C/422/485 *3
Power supply	DC24V		DC24V

*1 Please have the dedicated communication cable for connecting PLC with V8 series. If you use the optional unit called DU-10 and wish to continue using the existing cable, please have our optional conversion cable called “D9-D25”. If you do not use DU-10, please have our conversion cable “MJ2-PLC” (except when connecting to Mitsubishi A series CPU). When connecting to Mitsubishi A series CPU, please have our cable called “V706-ACPU”.
*2 It is not possible to push the two positions on the touch switch at the same time. However, it is possible to push the touch switch and the function switch at the same time.
*3 It is possible to realize RS-422 (4-wire) connection through MJ2.

	V606M Series		Recommended Replacement Model
	V606M10	V606M10M	V806MD
Panel cutout size (mm)			
Display device	STN monochrome		STN monochrome
Display color	8 grayscale		16 grayscale
Resolution	320 x 240 dots		320 x 240 dots
Touch switch	Analog	Matrix	Analog
Comm. I/F	D-Sub25-pin: RS-232C/422/485 MJ 8-pin (2 ports): RS-232C/422/485		D-Sub9-pin: RS-232C/422/485 (When using optional unit DU-10) MJ 8-pin (2 ports): RS-232C/422/485 *3
Power supply	DC24V		DC24V

*1 Please have the dedicated communication cable for connecting PLC with V8 series. If you use the optional unit called DU-10 and wish to continue using the existing cable, please have our optional conversion cable called “D9-D25”. If you do not use DU-10, please have our conversion cable “MJ2-PLC” (except when connecting to Mitsubishi A series CPU). When connecting to Mitsubishi A series CPU, please have our cable called “V706-ACPU”.
*2 It is not possible to push the two positions on the touch switch at the same time. However, it is possible to push the touch switch and the function switch at the same time.
*3 It is possible to realize RS-422 (4-wire) connection through MJ2.

- Screen Program Transfer

- For V6 Series

MJ 8-pin — V-CP (RS-232C) — D-Sub 9-pin

[Configuration Software]

V-SFT

For Windows98SE/NT

* V-SFT-5 is also supported as well. The upgraded program for V-SFT-5 is available on our website.

- For V8 Series

USB-B — USB cable — USA

MJ 8-pin — V-CP (RS-232C) — D-Sub 9-pin

[Configuration Software]

V-SFT-5（Ver.5）

For Windows98SE/NT4.0/Me/2000/XP/XP 64Edition/Vista 32bit/Win 7 32bit

*Screen program can be also downloaded via Ethernet.

- Screen Program Conversion

If you have the screen program of V6 series unit, it is possible to convert the program from V6 series to V8 series using V-SFT-5 (configuration software for V series).
Conversion is easily available only by changing the edit model by clicking [System Setting] → [Edit Model Selection] in V-SFT.
However, it may not be possible to keep the screen program 100% compatible. The program may be somewhat limiting, or some of the functions may not be converted to meet the specifications of the new model.
Please refer to the file conversion manuals for details.

- For converting from V6 series to V7 series, please refer to “Conversion from V6 to V7” Manual.
- For converting from V7 series to V8 series, please refer to “V8 Series File Conversion” Manual.

Please download from: **http://www.hakko-elec.co.jp/en/download/01manu/index.php**

* The replacement models recommended in this guidance are the models that have less limitations in the conversion. It is also possible to replace into the model, which is not recommended in this guidance. Please select the model for replacement in accordance with your own system.